

US EPA RECORDS CENTER REGION 5



466240

**FIELD OVERSIGHT SUMMARY REPORT
ACS NPL SITE
GRIFFITH, INDIANA**

NOV. 30, 1998 - DEC. 4 1998

USEPA/ARCS V BVSPC Oversight Summary

Reporting Period Nov. 30 to Dec. 4, 1998 Hours Worked: 110 hours
Site Name/Location: ACS/Griffith, IN BVSPC Project No.: 46518.233
USEPA Work Assignment Manager: Sheri Bianchin, RPM
Site Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsor, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
John Noyes, Judith Kinch, Jennifer Smith, Alex Ellwood, Robert A. Adam, Ann Sautman, Brian Griesemer Montgomery-Watson, Madison, WI and Addison, IL	7	Field Sampling Crew (for quarterly groundwater sampling)
Steve Mrkvicka, Chad Gailey, Carter Helm, Black & Veatch Special Projects Corp (BVSPC)	3	USEPA Oversight Contractor

Summary of field activities:

During the week of November 30, 1998, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. Three Montgomery Watson field sampling crews were assembled to collect samples from monitoring wells within the ACS site boundary, the wetland area, the City of Griffith Landfill, and the areas that lie north, south, and east of the ACS facility. BVSPC's three-man crew conducted oversight of the field activities and also collected split samples from 11 monitoring wells and an effluent sample from the Perimeter Groundwater Containment System (PGCS) treatment building. A BVSPC representative accompanied each sampling team to ensure that proper sampling techniques were conducted. The SOP and work plan for low flow groundwater sampling was adhered to by all sampling teams. The BVSPC representatives collected appropriate EPA split sample then maintained proper custody of previously collected samples, which were stored, sealed, and packaged on ice at the PGCS treatment building. BVSPC drafted sample paperwork, including chain of custody forms, custody seals, and sample tagging, in

addition to the overview of Montgomery Watson's sample paperwork procedures and equipment decontamination set-up and routine.

Montgomery Watson collected groundwater samples from 44 monitoring wells, plus duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. The monitoring wells sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report. Montgomery Watson utilized low flow purge technique and monitored for stability of the following groundwater parameters: pH, specific conductance, dissolved oxygen redox, and temperature. Groundwater turbidity was also monitored and samples were collected when turbidity was 10 nephelometric units (NTU's) or less.

BVSPC, on behalf of EPA, collected groundwater split samples with the following designations: MW-10C (GW01), M-1S (GW02), MW-45 (GW03), MW-51 (GW04), MW-18 (GW05), MW-48 (GW06), EF-01 (GW07), ATMW-4D (GW08), M4S (GW09), MW-9R (GW10), M4D (GW11), and MW-06 (GW12). One equipment rinsate blank collected by Montgomery Watson was also split by BVSPC to ensure that proper decontamination procedures yielded clean sampling equipment. As required by the EPA-approved Mini-Quality Assurance Project Plan, BVSPC collected two duplicate samples from MW-48 (GW06), and MW-06 (GW12), and one MS/MSD sample from M4D (GW11).

Trip blanks accompanied each sample shipment that contained samples for volatile organic analysis. Four trip blanks were shipped. The samples for the organic analyses were shipped to PDP Analytical Services, The Woodlands, Texas, which is a Contract Laboratory Program lab assigned by the Sample Management Office. The samples for inorganic analyses were hand-delivered to Region V, Central Regional Laboratory, Chicago, Illinois. All samples were designated for low concentration Target Compound list and Target Analyte list groundwater analyses.

BVSPC representatives observed the dedication of teflon lined polyethylene tubing to each sampling well during the sampling event. A sediment sample was collected at the point where the PGCS effluent discharges into the wetlands.

Signature: Chad Gailey

Date: December 29, 1998

(4)

Chad Lailap 9/22/98

8:15

Late ENTER OF AChart to show
the wells EPA split with the
Montgomery Watson

mw-49 = GW01

mw-48 = GW02

1033 REPER = GW03

1029 REPER = GW04

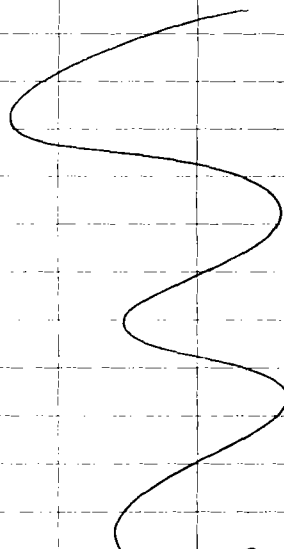
1002 REPER = GW05

1009 REPER = GW06 MS/MSD

1007 REPER = GW07 Dup

mw-29 = GW08

There was also a Freeb Blank.



Chad Lailap

(15)

Chad Lailap 11/30/98

X Coolers How many 18

X Vermiculite

X Zip lock Bags

X Bottles pre Read to go

X Gloves Occluded Nitro

X Glove Liners 100 pair

For water level (static) measurements:

1 Present Jennifer Smith, Robert M.

ADAM, Judith Kinch, Ann Sautman,

John Noyes, Chad Lailap,

MW WATER TREATMENT STAFF

Lee Orose, Weather Rain, 56°F

GW#	Well #	GW#	Well #
GW01	MW10C	GW12	MW6
GW02	M-15		
GW03	MW45		
GW04	MW51		
GW05	MW18		
Dup GW06	MW48		
GW07	EF-01		
GW08	ATW4D		
GW09	M4S		
GW10	MW9R		
MS/MSD GW11	M4D		

efficient from Plant.

(16)

Chad Galy 12/1/98

7:00 Arrived on site, weather 42°F
 Sunny No wind.
 Present is Steve Mikvickay,
 CHAD Bailey,
 MW Crew of 6

Landfill

VA

LA

* M4S mur * MW48 JR * MW51 JR
 * M1S mur * MW6 mur * MW9R mur
 * M4D mur * MW45 Jc * MW10C mur
 * MW18 mur * ATMW-4D mur

Treatment Bldg Effluent (un-split)
 Equipment Blank (split)

Teams { MUR Jennifer ANNE / Brian u/s
 J R Noyes Rob
 Jc Judith Alex

Controller Reel: Flow + Pump by
 GRUNDFOS 800 593 4009
 Pressure by 10% Hydro Lab.

(17)

Chad Galy

12/1/98

8:00 Group one Jennifer + ANN, setting
 up on MW10C. This will be EPA
 split. MW10C = GW01

8:10 Jennifer + ANN connecting tubing
 to the pump (Grand Flow)

Picture #1 Facing West at
 MW10C = GW01

8:40 MW had to exchange pump 1st one
 didn't work. Second one

8:45 Carter Helm is going to stay with
 Group 1. I will meet up with
 Group 2 Judith + Alex.

9:00 Arrive at MW39 with Judith + Alex
 This is not an EPA Split Problem
 with Generator.

10:00 Still can not get Generator to start
 with Alex, Judith.

Judith + Alex went to get a New
 Generator. I will return to the
 WATER TREATMENT Bldg. meet up
 with John to see which well he will
 sample next.

10:50 ARRIVED AT MW48 This is an EPA
 Split MW48 = GW06 A Duplicate

Chad Galy

⑮

Chad Saffap 12/1/98

10:50 John Noyes + Al. Rob ARE Group 3
ARE SETTING up on MW48 = GW06

This is ALSO A Duplicate.

11:00 Picture #3 Facing North West AT
MW48 = GW06 Dup, Picture is Rob + John
INSERTING Pump into the well. The
well is About 50 feet North of TRACKS

11:10 Pumping Well

Time	Turb	Temp	pH	Conc.	DO	Rate
11:13	41.9	12.55	7.06	.852	2.73	M40
11:15	27.7	13.14	7.06	.868	2.77	M3
11:19	22.5	13.68	7.05	.862	2.77	M1
11:21	23.3	13.96	7.07	.861	2.37	M0
11:25	22.2	14.15	7.07	.855	2.22	M1

11:32 LOST FLOW Due to problem w/variable
flow controler.

* Flow Volume ESTIMATED.

11:35	18.9	12.78	7.10	.836	.17	M5
11:38	19.5	13.62	7.10	.843	.17	M2
11:40	18.7	13.7	7.11	.843	.18	M1

11:45 Start Sampling & Disconnect
Hydro Lab

11:50 Picture #4 John Noyes filling
VOA Bottle Facing North west

12:01 Finished, Back to A & B

⑯

Chad Gabley 12/1/98

12:05 Group 3 Deconing Pump

14:20 ARRIVED AT MW45 = GW03, Setting
up Equipment, ATV is Necessary to
get to the well.

14:40 Deconing Pump + Cabel.

14:45 Picture #5 AT MW45 = GW03

FACING EAST OF Juelth and Alex pugging
the well. Location middle of a Farmers
field. North is Rader Rd, West Cal Fax.
EPA Split.

Time	Turb	Temp	pH	Conc	DO
14:48	41.6	13.28	6.88	1.26	1.88
14:50	84.7	13.58	6.88	1.205	2.04
14:52	61.6	16.00	6.91	1.215	1.24
14:54	37.2	15.35	6.91	1.224	1.8
14:56	22.0	15.11	6.90	1.224	1.08
14:58	41.8	16.28	6.93	1.207	1.14
15:00	43.6	17.43	6.94	1.197	1.08
15:02	32.9	16.91	6.94	1.218	1.14
15:04	41.7	14.59	6.91	1.215	0.59
15:10	27.0	15.27	6.94	1.216	0.32
15:12	16.9	15.68	6.95	1.218	0.33
15:16	13.7	16.19	6.96	1.218	.35
15:18	13.7	16.57	6.96	1.221	.33
15:20	14.8	17.95	6.97	1.213	.22

(20)

Chad Lail 12/1/98

- Task Tem PH Conc DO
 15:22 13.3 17.20 6.97 1.221 0.29
 15:25 Pump well Dry. Gonna get it
 Recharge then sample
 15:35 START Sampling Di's connected Hydrolab
 Picture #6 Facing North mw 15-6203
 of Ads, I don't know sampling there.
 Lill VOA's Farmer field.
 15:55 FINISHED Sampling, Return to
 WATER TREATMENT Bld (WTR)
 To Pack samples.
 17:30 Finish Packaging Cool For
 Organic to ship FedEx.
 Now to wait for FedEx get road
 for tomorrow.

Chad Lail

(21)

Chad Lail 12/2/98

- 6:35 ARRIVED AT WATER TREATMENT Bld
 Weather Clear 49°F Wind from
 SW 10-12 knots. Present Carter
 Helm, Montgomery Watson crew is
 arriving periodically.
 7:40 Arrived at mw31 AND mw32, setting
 up to sample with John + Rob. This is
 not AN EPA sample.
 7:50 Picture #7 Facing East at mw31 This
 is not AN EPA split. Rob grueling the
 tubing and pump down the well.
 This well is next to the tracks on
 the North side of the site. the
 well is 50' south of tracks.
 8:16 Final Parameters
 Temp DO Conc pH Reclon Turb
 12.02 0.48 0.747 7.74 77 2.22
 START Collecting Samples.
 8:20 Picture #8 Facing East at mw31
 of John Noyes filling VOA bottles
 8:40 Received Sample from Carter to Pack
 12:00 Lunch

Chad Lail

22) Chad Lantry 12/2/98

1:30 ARRIVED AT MUSS SETTING UP AND
Purging wells. This is NOT AN EPA
split. Sampling team John Noyes
AND Rob Adams.

13:45 Picture #9 Facing SW at MUSS
North of ACS 100 feet off the
WATER TREATMENT Access Road. John Noyes
Taking parameters w/ Hydro Lab

13:55 Final Parameters.

Temp	DO	Conc	pH	Turb
12.31	0.69	0.934	7.69	16.3

14:00 Sampl Time MUSS NOT AN EPA Split.

14:15 Picture #10 Facing SW. MUSS
John Rob Pull tubing and pump out of
the well. Finish sampling MUSS.

15:50 Arrived AT A Host of Three wells
mw30, mw33, mw51. MW51 will
be EPA split mw51 = GW04.
mw is sampling mw33.

16:10 Take Discharge WATER TO WATER TREAT

16:30 Picture #11 & 12 facing North at
mw51 = GW04 of John Noyes
installing pump + tubing in mw51.

16:55 13.73 0.43 1.60 7.32 7.9
17:00 START Sampling

23) Chad Lantry 12/3/98

6:50 ARRIVED ON SITE, Weather is
52°F AND the wind is out of SW
at 10-12 knots. Present is Carter Helm
AND Montgomery Watsons CREW. The
ONE CHANGE is ANNE Santman
left us AND Brian Graieser.

7:20 ARRIVED AT MW09R, We ARE
SETTING up to pump well.

7:40 Picture #13 Facing West at MW09R
= GW10 This is AN EPA split.
The picture is of Brian taking
Parameters with Hydro Lab.

Time	Turb	Temp	pH	Conc	DO	Redox
8:04	13.5	13.15	7.08	1.2200	0.17	9112

These are Final Parameters for MW09R.

8:06 Sampling Well MW09R = GW10

8:10 Picture #14 Sample well with
OF Brian Pulling Bottles and
Jennifer holding tubing.

8:20 Finish sampling

8:50 C. Helm mobilizes to
mw-18 located in driveway
of James Gorman
1009 Reder Rd.

Photo #15 Collecting Parameters
with flow cell at mw-18

(24)

Carlen Nelson

12/3/98

0905 Begin Purge of
mw-18 = GW05

0930 Final Parameters:

Turb = 1.6 Temp = 13.92
pH = 7.22 conduct = 0.740
DO = 2.62 redox = 253

0935 Sample mw18 (GW05)

0945 Photo #16 Filling cu-
and metal containers
at low-flow at mw-18.

10:50 Arrive AT ATMW4D = GW08.
This is EPA Split, met with Tom
from ACS for safety talk and Plant
instructions.

Picture #17 Bruce taking Parameters
Facing West, at ATMW4D
= GW08.

Time	Turb	Temp	pH	Conc	DO	Redox
11:40	48.2	7.36	7.57	1028	2.02	104

11:40 START Sampling

Picture #18 Filling Syphons
ATMW4D = GW08

13:00 Sampling complete

13:10-1340 Lunch Break & set up

(25)

Cant - Huh 12/3/98

1400 Mobilize to mw-12
off Colfax Rd near
Truck parking area of
Residence.

Team 2 is purging here
(Jenny & Brian)

John Wages & Rob
Parkins their samples
Alex & Judith

at mw-48 & mw-24

This afternoon.

1515 BU personnel - pack
Organic coolers
for feed & shipping
& inorganic cooler for
hand delivery tomorrow

1605 Prep for tomorrow
schedule effluent
sampling w/ Lee
clean-up area / fax
Traffic report to BU office
etc.

(26)

0650

Canton Mch 12/14/28

Arrive at Treatment Plant
begin clean-up of
BV sampling prep area

Note: The following table
represents Final
parameters of EPA
split wells collected
by C. Helton on 12/1 & 12/2

Well #	Date & Time	Temp	DO	Conductivity	pH	Redox	Turbidity
10C	12-1 0930	13.28	0.18	1.72	7.19	118	19.7
4D	12-2 0820	13.70	0.23	1.36	7.57	94	12.2
4S	12-2 0925	15.44	0.54	2.82	6.42	157	23.9
1S	12-2 1028	14.75	0.19	3.02	6.78	134	17.4
6	12-2 1928	16.90	0.15	2.40	6.65	154	7.3
				(x100)			NTU

(27)

Canton Mch 12/14/28

0905 Concern: Is effluent
sample going to be undergoing
analysis for BOD?

If so, holding time
will expire for Lab
if shipped today (Fri.)
Call Steve Wicknick
at Home to clarify.

He states:

No BOD Analysis
just TCH / TALK
Therefore sample is
today for Sat delivery
Steve will notify
SMD to notify Lab for
Sat acceptance of samples.

0950 Got with Lee Cruz
& set up at effluent
discharge station inside
Treatment Plant.
Lee states that Plant
has been operating since
0630 this morning.

(28)

12/4/98

10:00 Chad & C. Helm collect

EF-01 \Rightarrow GW-07 = 507

which is effluent
discharge.

10:05 Photo #19

VOA collection at

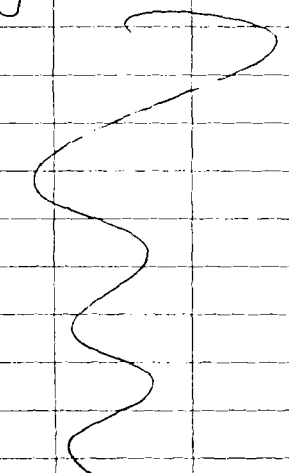
EF-01.

11:00 Judith and Alex Decompose pump

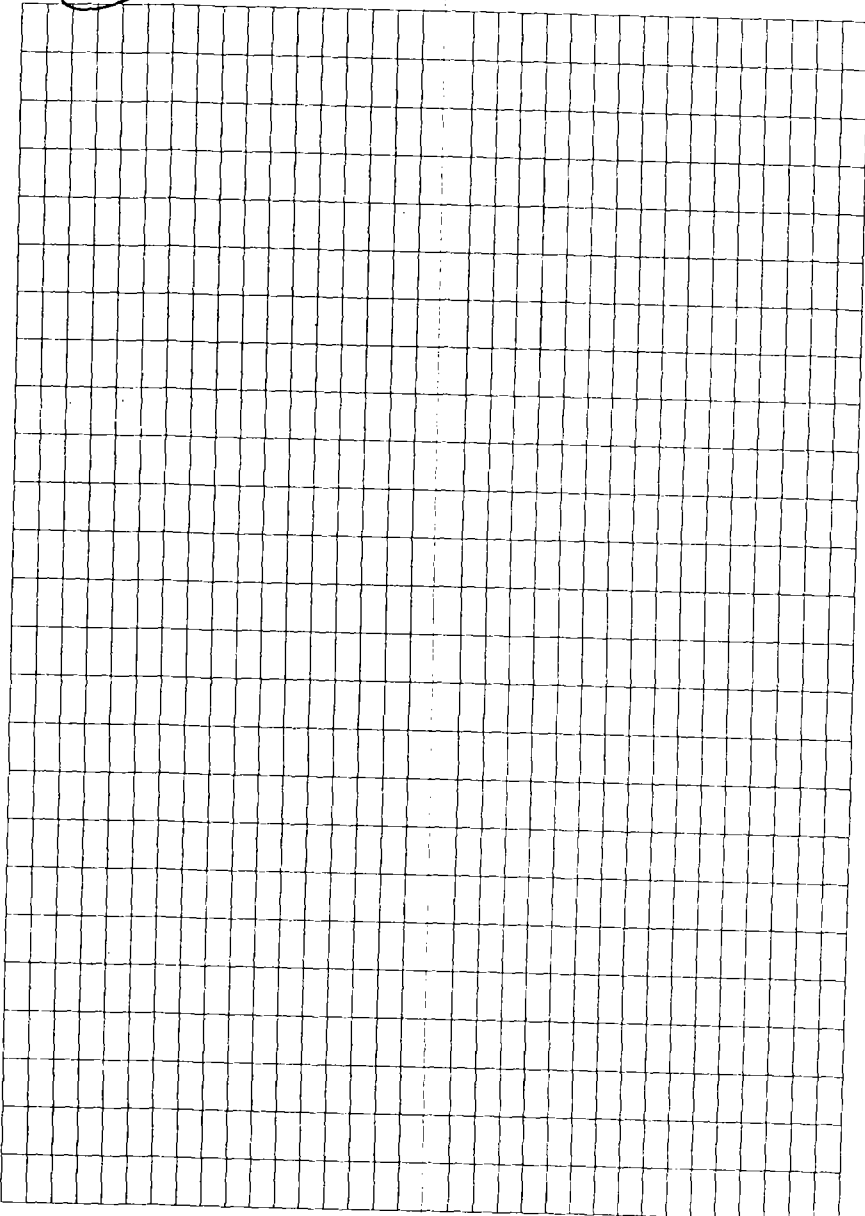
preparing for Sediment Sample

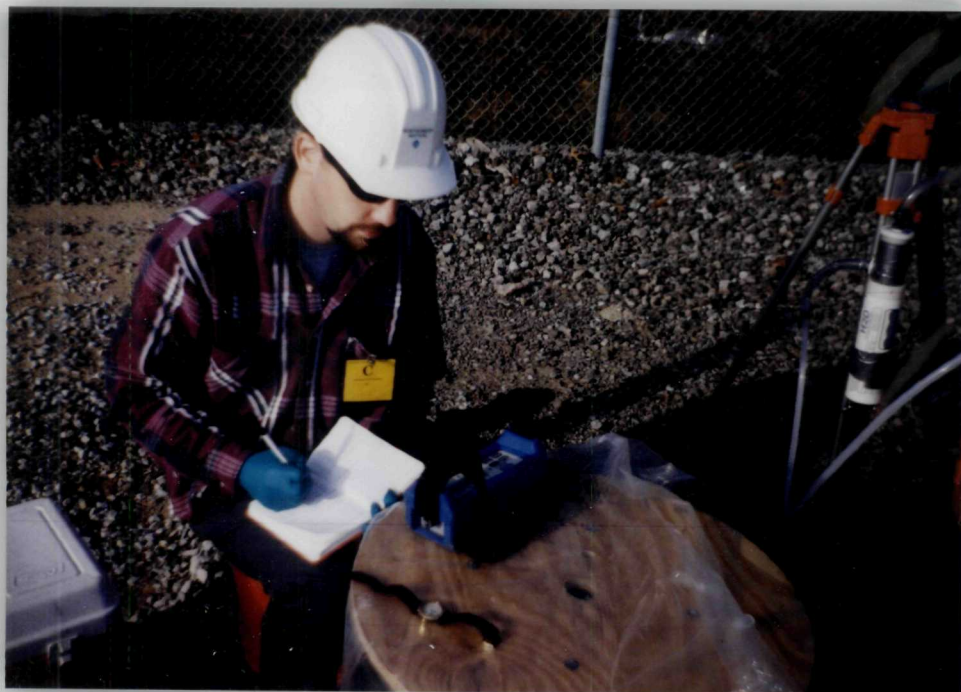
12:20 Lunch

1:45 Taking Sediment Sample


Chad Helm

(29)

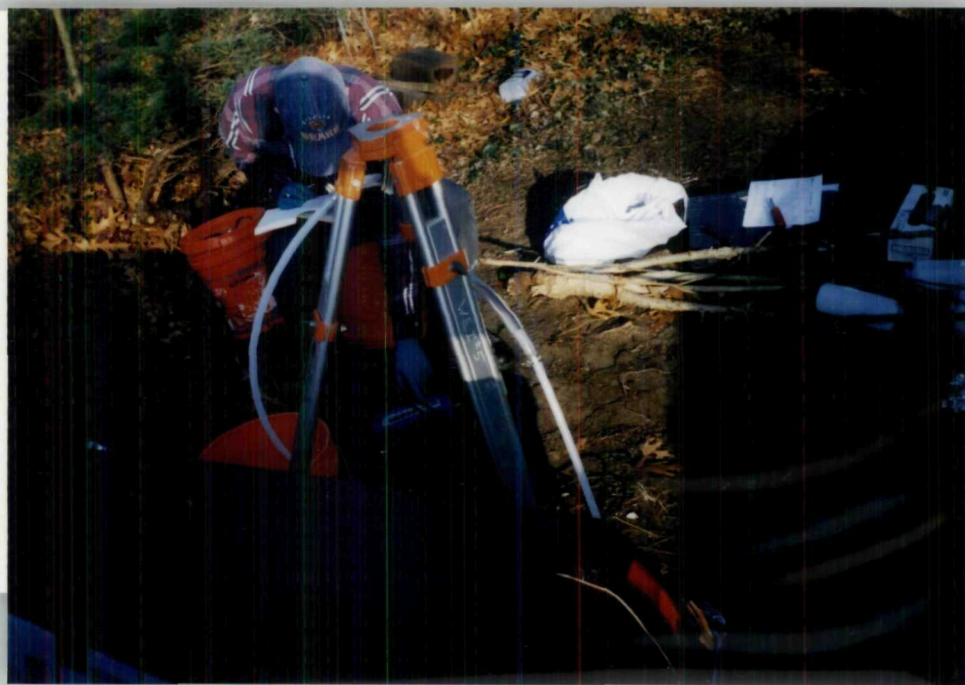




Site: American Chemical Services, Inc. RD/ERA
 Project: 46517/46518
 Photo: 17
 Date: 12-3-98 Time: 10:50
 Photographer: Chad Gailey
 Description: Photo facing southwest, at well ATMW4D/GW08 of Brain Griesemer and Jennifer Smith taking parameters with hydro-lab.



Site: American Chemical Services, Inc.
 RD/ERA
 Proj. #: 46517
 Roll: 1 Frame #: 19
 Date: 12-4-98 Time: 10:00
 Photographer: Carter Helm
 Description: Photo facing west inside the Perimeter Groundwater Containment System treatment building of Chad Gailey taking an effluent sample.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 15

Date: 12-3-98

Time: 09:05

Photographer: Chad Gailey

Description: Photo facing southwest, at MW-18/GW05, of Brain Griesemer collecting parameters with a hydro-lab.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 16

Date: 12-3-98

Time: 09:45

Photographer: Chad Gailey

Description: Photo facing south, at MW-18/GW05 of Brain Griesemer and Jennifer Smith collecting samples.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo:13

Date:12-3-98

Time:07:40

Photographer: Chad Gailey

Description: Photo facing west, well MW-9R/GW10 of Brain Griesemer taking parameters with a hydro-lab.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 14

Date:12-3-98

Time:08:10

Photographer: Chad Gailey

Description: Photo facing east at well MW-MW-9R/GW10 of Brain Griesemer filling bottles while Jeniffer Smith held the tubing.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 10

Date: 12-2-98

Time: 14:15

Photographer: Chad Gailey

Description: Photo facing southwest at well MW-55 of John Noyes and Robert Adam pulling tubing and pump out of the well to retrieve pump after finished sampling.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 11

Date: 12-2-98

Time: 16:30

Photographer: Chad Gailey

Description: Photo facing north, well MW-51/GW04 of John Noyes installing pump and tubing.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo:8

Date:12-2-98 Time:08:20

Photographer: Chad Gailey

Description: Photo facing east, at MW-31 of John Noyes filling VOA bottles.



Site: American Chemical Services, Inc. RD/ERA
Project: 46517/46518

Photo: 9

Date: 12-2-98

Time:13:45

Photographer: Chad Gailey

Description: Photo facing southwest, at well MW-55 of John Noyes taking parameters with a hydro-lab.



Site: American Chemical Services, Inc. RD/ERA
 Project: 46517/46518
 Photo: 6
 Date: 12-1-98 Time: 15:55
 Photographer: Chad Gailey
 Description: Photo facing north at MW-45/GW03 of Alex Ellwood and Judith Kinch filling VOA's using low-flow technique.



Site: American Chemical Services, Inc. RD/ERA
 Project: 46517/46518
 Photo: 7
 Date: 12-2-98 Time: 07:50
 Photographer: Chad Gailey
 Description: Photo facing east at MW-31 of Robert Adam guiding the pump and tubing down the well.



Site: American Chemical Services, Inc. RD/ERA
 Project: 46517/46518
 Photo: 4
 Date: 12-1-98 Time: 11:50
 Photographer: Chad Gailey
 Description: Photo facing northeast, well MW-48 John Noyes filling VOA bottles using low-flow technique.



Site: American Chemical Services, Inc. RD/ERA
 Project: 46517/46518
 Photo: 5
 Date: 12-1-98 Time: 14:45
 Photographer: Chad Gailey
 Description: Photo facing east at MW-45/GW03 of Judith Kinch and Alex Ellwood purging the well.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 1

Date: 12-1-98

Time: 08:10

Photographer: Chad Gailey

Description: Photo facing west, well MW-10C/GW-01 of Jennifer Smith and Ann Sautman connecting teflon lined polyethylene tubing to the pump.



Site: American Chemical Services, Inc. RD/ERA

Project: 46517/46518

Photo: 3

Date: 12-1-98

Time: 11:00

Photographer: Chad Gailey

Description: Photo facing northwest, well MW-48/GW-06 of Robert Adam and John Noyes inserting pump and tubing in to the well.